

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P476167

Luminaire Tested: **22GR-LD5-85-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476167
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-FGW080-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7409.4 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

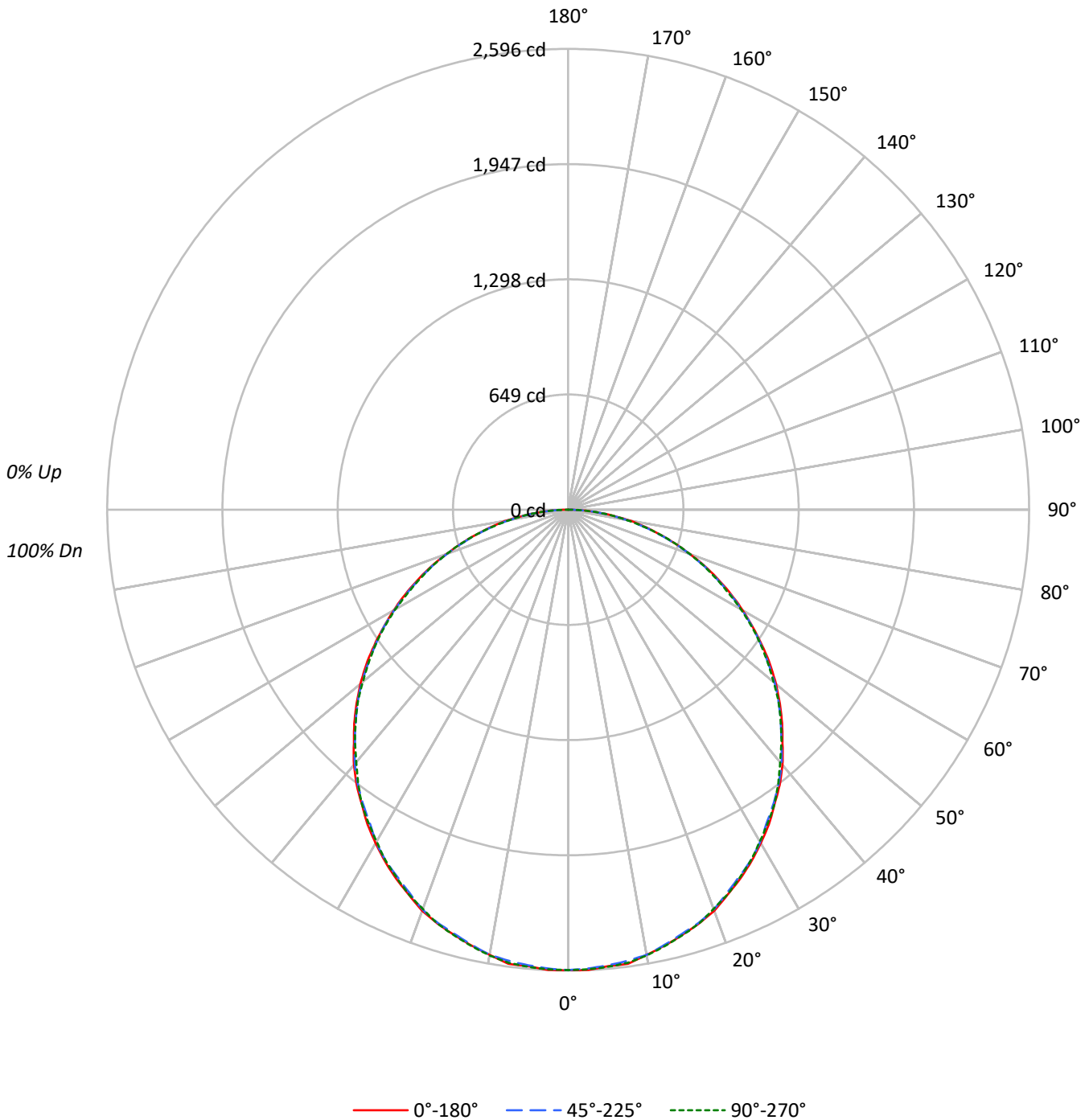
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6979	6979	6979
5°	6971	6959	6982
10°	6956	6956	6968
15°	6910	6892	6916
20°	6885	6866	6853
25°	6808	6770	6789
30°	6739	6719	6705
35°	6655	6626	6655
40°	6596	6565	6519
45°	6483	6441	6441
50°	6393	6357	6320
55°	6258	6217	6206
60°	6112	6077	6053
65°	5955	5886	5858
70°	5718	5701	5718
75°	5519	5451	5496
80°	5458	5188	5154
85°	4841	4705	4773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	3.3
10°-20°	700.0	9.4
20°-30°	1054.0	14.2
30°-40°	1264.9	17.1
40°-50°	1308.8	17.7
50°-60°	1186.1	16.0
60°-70°	919.3	12.4
70°-80°	558.0	7.5
80°-90°	172.8	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1999.4	27.0
0°-40°	3264.3	44.1
0°-60°	5759.2	77.7
0°-90°	7409.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7409.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2594	2594	2594	2594	2594	
5°	2580	2580	2576	2583	2585	246
15°	2480	2480	2474	2485	2482	701
25°	2293	2289	2280	2289	2286	1057
35°	2026	2026	2017	2019	2026	1270
45°	1704	1701	1693	1693	1693	1315
55°	1334	1332	1325	1323	1323	1193
65°	935	935	924	929	920	925
75°	531	529	524	524	529	565
85°	157	155	152	152	155	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2593.6	2593.6	2593.6	2593.6	2593.6
2.5°	2595.7	2584.8	2587.0	2591.4	2591.4
5°	2580.5	2580.5	2576.1	2582.7	2584.8
7.5°	2580.5	2569.6	2563.1	2569.6	2574.0
10°	2545.6	2541.3	2545.6	2543.5	2550.0
12.5°	2515.2	2510.8	2510.8	2517.3	2517.3
15°	2480.3	2480.3	2473.8	2484.7	2482.5
17.5°	2445.5	2445.5	2441.1	2441.1	2445.5
20°	2404.1	2393.2	2397.6	2395.4	2393.2
22.5°	2347.5	2341.0	2336.6	2343.1	2345.3
25°	2293.0	2288.7	2280.0	2288.7	2286.5
27.5°	2234.2	2229.9	2227.7	2223.4	2227.7
30°	2168.9	2164.6	2162.4	2158.0	2158.0
32.5°	2103.6	2094.9	2084.0	2094.9	2092.7
35°	2025.7	2025.7	2017.0	2019.2	2025.7
37.5°	1956.1	1951.7	1947.3	1940.8	1943.0
40°	1877.7	1871.1	1868.9	1864.6	1855.9
42.5°	1786.2	1786.2	1777.5	1779.7	1777.5
45°	1703.5	1701.3	1692.6	1692.6	1692.6
47.5°	1616.3	1614.2	1607.6	1603.3	1607.6
50°	1527.1	1518.4	1518.4	1511.8	1509.6
52.5°	1434.0	1427.4	1418.7	1420.9	1416.5
55°	1333.8	1331.6	1325.1	1322.9	1322.9
57.5°	1233.6	1235.8	1231.4	1222.7	1224.9
60°	1135.6	1133.5	1129.1	1124.7	1124.7
62.5°	1035.5	1035.5	1026.8	1026.8	1018.0
65°	935.3	935.3	924.4	928.8	920.0
67.5°	835.7	833.5	827.0	824.8	827.0
70°	726.8	729.0	724.6	724.6	726.8
72.5°	628.8	626.6	624.4	624.4	628.8
75°	530.8	528.6	524.3	524.3	528.6
77.5°	441.5	430.6	428.4	432.8	426.3
80°	352.2	337.0	334.8	332.6	332.6
82.5°	248.2	241.7	243.9	241.7	246.1
85°	156.8	154.6	152.4	152.4	154.6
87.5°	74.0	69.7	69.7	67.5	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)